

ABSTRACT

A method for determining oscillation of a rotating blade disc of a turbomachine is provided. The method utilizes the steps including, arranging a substance that emits a light quanta when excited by an external excitation source to emit the light quanta, exciting the light emitting substance by the external excitation source to emit the light quanta, sensing the emitted light quanta by a light sensor, and evaluating a signal from the sensor to determine the oscillation behavior of the blade disc. A corresponding apparatus is also provided.